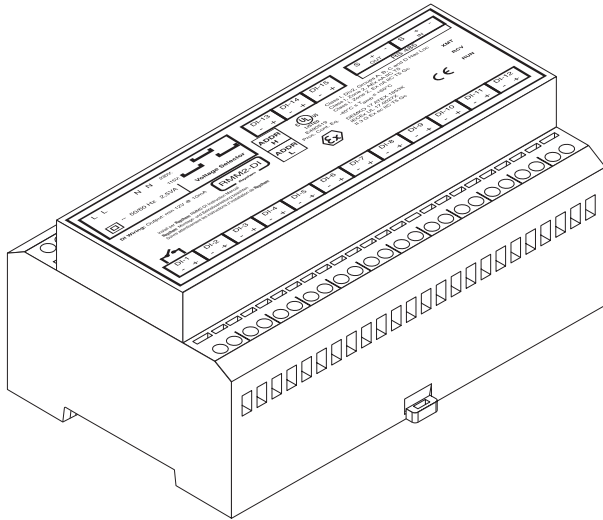


Remote monitoring module for Digital Inputs

PRODUCT OVERVIEW



The Remote Monitoring Module for Digital Inputs (Raychem RMM2-DI) provides the capability for the Raychem NGC controller family to read the status of devices remotely and can link them back to the electrical heat-tracing circuits.

The RMM2-DI has in total 15 digital inputs. Multiple RMM2-DI units can communicate with a single User Interface providing centralized monitoring capabilities.

Control and monitoring

A Raychem NGC network controls up to 260 heat-tracing circuits per system based on ambient or pipe temperatures. The RMM2-DI module can be used to collect circuit breaker status, contactor status or other digital information in the field. This information will be communicated back to a central location via one communication cable, reducing installation and wiring cost.

Circuit breaker trip alarms

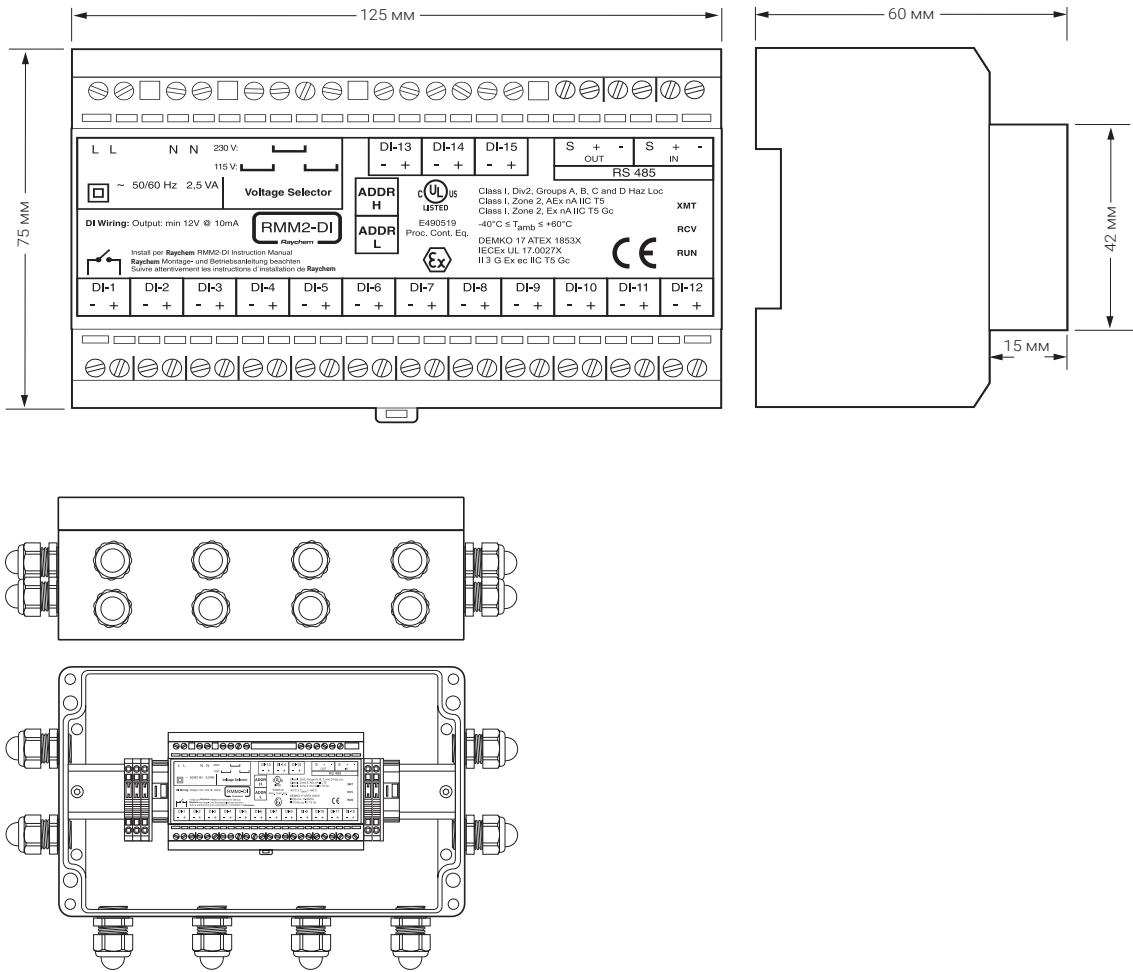
When monitoring the circuit breaker status with the RMM2-DI module, the information can be linked in the NGC control system to the associated electrical heat-tracing circuits. An alarm will be generated when a circuit breaker trips. As a result the User Interface will show in detail which circuit breaker tripped and the associated electrical heat-tracing circuit(s) effected. The alarms may be reported remotely through an alarm relay in the User Interface, via Raychem Supervisor and upstream to a Process Control system via a Modbus communication link.

Configurations

The RMM2-DI is an electronic device that clips to a DIN 35 rail. The complete kit for ordinary and hazardous areas (Zone 2) include an RMM2 mounted in a rugged polyester enclosure with appropriate terminals and cable glands. For other installation options, contact Chemelex.

PRODUCT SPECIFICATIONS

Dimensions (mm) and mounting



Dimensions	125 mm x 75 mm x 60 mm, see drawing
Mounting	DIN rail mountable

Technical details

Ambient operating temperature range	–40°C to +60°C
Ambient storage temperature range	–51°C to +60°C
Relative humidity	Max. 95%, noncondensing
Supply voltage	(nominal) 115/230 Vac +10% –10% 50/60 Hz (jumper selectable)

RMM2-DI-EX-E enclosure

RMM2-DI-8GL-EXE-E	RMM2-DI enclosure with 8 Glands for Digital input signals
Dimensions	260 mm x 160 mm x 91 mm
RMM2-DI-15GL-E	RMM2-DI enclosure with 15 Glands for Digital input signals
Dimensions	360 mm x 160 mm x 91 mm

Digital input

Type	2 wire digital input
Supplied power	Minimum power per DI connection supplied by RMM2-DI module 12 V 10 mA (Sink/source)
Number of signals	15 Digital inputs

Communication to Raychem NGC control system

Type	RS485
Protocol	Modbus RTU
Cable type	Shielded twisted pair
Length cable	1200 m max.
Address switch	Selectable on RMM2-DI, address range: 1-255

Connection terminals

Supply (in-out)	4 terminals for cables 0.2 mm ² to 4 mm ²
RS485 connection	2 x 3 terminals for cables 0.2 mm ² to 2.5 mm ²
DI connections	15 x 2 terminals for cables 0.2 mm ² to 2.5 mm ²

APPROVALS

RMM2-DI module

For use in ordinary area.

For use in hazardous area (when mounted in Ex-d enclosure. RMM-DI panel mount, safe area)

Zone 1 and Zone 2 (Gas), Zone 21 and Zone 22 (Dust)

Class 1 Div 2 and Class I Zone 2

RMM2-DI-8GL-EX-E and RMM2-DI-15GL-EX-E System

For use in ordinary and hazardous area Zone 1 and Zone 2 (Gas),

Temperature classification

T5

Product certification

RMM2-DI module:



RMM2-DI-8GL-EX-E and RMM2-DI-15GL-EX-E system



For certifications in other regions (FM, CSA, IEX, UL, etc.), please refer to the installation manual.

More details about product certification, approvals and conditions of safe use are available in the installation manual at www.chemelex.com.

ORDERING INFORMATION

Additional Details	Part Description	Part Number	Weight	EAN Number
RMM2-DI, no enclosure	RMM2-DI	1244-018083	0.3 kg	5414506018479
With Zone 2 enclosure and 8 Glands for DI signals	RMM2-DI-8GL-EX-E	1244-018858	1.9 kg	7350027271611
With Zone 2 enclosure and 15 Glands for DI signals	RMM2-DI-15GL-EX-E	1244-018859	2.0 kg	7350027271628

North America

Tel +1 800 545 6258
info@chemelex.com

Latin America

Tel +1 713 868 4800
info@chemelex.com

Europe, Middle East, Africa, India

Tel +32 16 213 511
Fax +32 16 213 604
info@chemelex.com

Asia Pacific

Tel +86 21 2412 1688
infoAPAC@chemelex.com



Raychem Tracer Pyrotenax Nuheat